

Sir,  
**Cytomegalovirus and Eye**

We read with interest the very comprehensive article by Carmichael on cytomegalovirus (CMV) and eye.<sup>1</sup> In addition to the clinical features reported by the author,<sup>1</sup> we would like to highlight some additional salient clinical points associated with CMV and eye.

With regard to clinical manifestation of CMV anterior uveitis, the iris atrophy is patchy or diffuse, with no posterior synechiae and no posterior segment changes.<sup>2</sup> It is usually associated with increased intraocular pressure.<sup>2</sup> Chee and Jap<sup>3</sup> also reported the presence of an immune ring in the cornea of patients with CMV anterior uveitis. Nodular endothelial lesions are white, medium-sized, nodular lesions surrounded by a translucent halo, which are significantly associated with CMV infection in cases of chronic anterior uveitis.<sup>2,3</sup> Anterior uveitis with ocular hypertension resistant to topical steroid therapy and not clinically suggestive of the herpes group of virus makes the clinician suspect CMV infection.<sup>2</sup> CMV anterior uveitis responds to ganciclovir, but the relapse rate is high and prolonged therapy may be required. As reported by Jap and Chee,<sup>2</sup> ganciclovir gel induced a response in two-thirds, but uveitis recurred in 57% of acute and 25% of chronic inflammation. They recommended ganciclovir gel as first-line therapy in view of its minimal adverse effects and affordability.<sup>2</sup>

As mentioned by the author,<sup>1</sup> CMV is a neurotropic virus with predilection to the retina and central nervous system. Also reported in the literature is CMV-related optic neuritis.<sup>4,5</sup> CMV optic neuritis is a rapidly-blinding disease. CMV affects the optic nerve from an adjacent focus of peripapillary CMV retinitis and, concomitantly, peripheral foci of CMV retinitis may be noted.<sup>4,5</sup>

Oral valganciclovir has proven to be a new and highly efficacious alternative to the chronic administration of ganciclovir in patients with CMV retinitis. In addition to its excellent bioavailability and favourable pharmacokinetic profile, valganciclovir has also proved to be cost effective and is the most widely used drug in the armamentarium for the treatment of CMV retinitis.<sup>6</sup> Valganciclovir has answered the great need of patients with CMV retinitis for an injection-free medication in the induction and maintenance phases of therapy.<sup>6</sup>

**Conflict of interest**

The authors declare no conflict of interest.

**References**

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Sir,  
**Postoperative eye protection after cataract surgery**

We read with interest the article by Lindfield *et al*<sup>1</sup> that reported that the use of eye shields following cataract surgery does not confer additional safety advantage. Although such studies are timely and relevant in the continuous effort to improve patient care, it is important to point out some limitations.

The frequency of complications such as endophthalmitis following cataract surgery are very rare, ranging from 0.05 to 0.30%.<sup>2,3</sup> Therefore, studies such as the current one, which included only 425 patients in the shieldless group,<sup>1</sup> are not adequately powered to detect a significant difference in the rates of endophthalmitis. If even a single case of endophthalmitis had occurred in the shieldless group, the rate would have been 0.24%, which would certainly be a cause of concern, regardless of whether it was significantly higher compared with 0.10% in the shielded group. Therefore, the clinical implications of differences in complication rates between the two groups should be interpreted with caution.

In addition, only 10% of the study population were surveyed, and approximately half of the 46 patients (10% of the study population) felt that eye shields were 'uncomfortable' and preferred not to wear one.<sup>1</sup> However, these patients did not have a prior experience of not wearing an eye shield to compare with. In a prospective randomized controlled trial of 60 consecutive patients undergoing bilateral cataract surgery with one eye patched and the other without postoperative patching, Stifter *et al*<sup>4</sup> reported that within the first 4 hours of cataract surgery, pain scores were significantly higher in eyes who had no eye patches (mean score 1.7 *vs* 0.55,  $P < 0.001$ ), and postulated that this was related to the faster tear break up time in patients with no ocular protection (4.6 *vs* 7.1 s,  $P < 0.001$ ). At the end of this study, 65% of patients would have preferred to receive postoperative ocular protection.<sup>4</sup> Another study<sup>5</sup> also reported that patching could modulate inflammation and aid in wound healing.

In summary, this study contributes useful information regarding the benefits of postoperative ocular protection.